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## NEW DRAGONFLIES FROM JAPAN (Odonata)

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Among Japanese Odonata the following 4 species and 5 subspecies are considered as new. Leaving a more detailed systematic discussion in the nearest future I will describe them briefly here.

1. **Gomphus (Trigomphus) melampus bifasciatus** subsp. nov. (Pl. 2,

Fig. 1)

*Gomphus melampus* RIS (partim), Suppl. Ent. 5, p. 52 (1916).*Gomphus melampus* OGUMA, Ins. Mats., 1, p. 92 (1926).*Gomphus melampus* OGUMA, Icon. Ins. Jap., 1907 (1932).

This subspecies is separated from *G. melampus melampus* SELYS, as follows:

1. The black stripe on the first lateral suture complete, often disconnected at the spiracle and very rarely abbreviated as *Gomphus melampus melampus*.
2. ♂. The apical claw of the hamuli posteriores curved more externally.
3. ♀. Abdominal segment 10 much longer than wide.
4. ♀. Valvula vulvae divided in its distal half, the tips relatively converging. (Pl. 2, Fig. 1, c).

5. Distribution confined to western Japan (West-Honsyu, Kyusyu, Sikoku).

Holotype: 1♂, Mutobe, Hukutiyama, 13. V. 1947 (ASAHINA leg.).

Allotype: 1♀, Mutobe, Hukutiyama, 14. V. 1947 (ASAHINA leg.).

Paratypes: 4♂, 1♀, Mutobe, Hukutiyama, 14. V. 1947 (ASAHINA leg.).

1♂, 3♀, Hakozaki, Hukuoka, 12. IV. 1946 (SHIROUZU leg.).

4♂, 1♀, Harumachi, Hukuoka, 14. V. 1946 (SHIROUZU leg.).

5♂, 4♀, Tukaguti, Osaka, 28. IV. 1946 (ASAHINA leg.).

2. **Gomphus (Trigomphus) citimus tabei** subsp. nov. (Pl. 2, Fig. 2)

This new subspecies differs from *Gomphus citimus citimus* NEEDHAM from Manchuria in the following respects:

1. ♂. The inferior subapical angle of superior appendages situated slightly distad. (Pl. 2, Fig. 2, c).
2. ♀. The tips of the divided valvula vulvae slightly pointed at the outer angle (Pl. 2, Fig. 2, a).
3. Distribution restricted to West Japan (Western Honsyu, Kyusyu).

Holotype: 1♂, Hirao, Hukuoka, 29. IV. 1946 (SHIROUZU leg.).

Allotype : 1♀, Harumati, Hukuoka, 14. V. 1946 (SHIROUZU leg.).

Paratypes : 1♂, Miyakonozyo, 10. IV. 1936 (Tabe leg.); 1♂, Kyoto, 2. V. 1942. (SUZUKI leg.); 3♂, Hiraō, Hukuoka, 29. IV. 1946 (SHIROUZU leg.); 2♂, 1♀, Mutobe, Hukutiyama, 13. V. 1947 (ASAHIINA leg.).

### 3. *Gomphus (Trigomphus) ogumai* sp. nov. (Fig. 1)

This species is very closely allied to *Gomphus (Trigomphus) melampus melampus* SELYS as well as the preceding species, but can be distinguished from the former in the following structures :

1. ♂. Superior appendages with one or two prominent dorsal teeth. (In *melampus* there is one indistinct projection). (Fig. 1. a).

2. ♀. Valvula vulvae divided deeply (nearly from its base). (Fig. 1. c).

3. The 7-mark on the front of pterothorax much broadly marked, the superior end of which is generally confluent with the antehumeral yellow spot.

4. Body larger : Abd. ♂ 34—35, ♀ 33—34; hind wing ♂ 26—27, ♀ 27—28.

Holotype : 1♂ Tuka-guti, Osaka, 28. IV. 1946 (ASAHIINA leg.).

Allotype : 1♀, Tukaguti, Osaka, 28. IV. 1946, (ASAHIINA leg.).

Paratypes : 10♂, 3♀, Tukaguti, Osaka, 28. IV. 1946, (ASAHIINA leg.); 1♂, Kyoto, 29. IV. 1933 (MINOURA leg.); 1♀, Miyazaki, 16. V. 1936 (SHIROUZU leg.).

### 4. *Gomphus oculatus* sp. nov. (Pl. 2. Fig. 3)

*Gomphus occultus* OGUMA (nec SELYS), Ins. Mats., 1, p. 95 (1926) "Rinkiu."

*Gomphus occultus* et *oculatus* (sic!) MATSUMURA, Illustr. Comm. Ins. Jap., 5, p. 57, 83, Tab. 18, fig. 4 (1933) [Kiushu (Kumamoto)].

*Platygomphus occultus* MATSUMURA, 6000 Illustr. Ins. Jap., p. 1451 (1931) [Kyusyu (Kumamoto)].

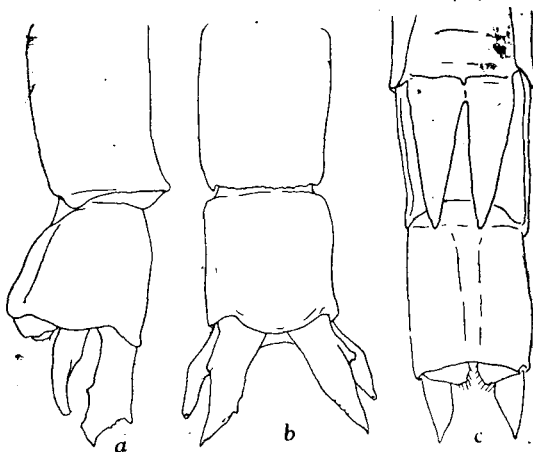


Fig. 1. [*Gomphus*] (*Trigomphus*) *ogumai* sp. nov.

- a. Caudal appendages (♂), lateral view.
- b. The same (♂), dorsal view.
- c. Genital plate (♀), ventral view.

*Gomphus occultus* OKUMURA (partim), Nat. Sci. and Museum, 9, p. 9 (1938) "Ōkuma-mura, Miyagi-ken; Ueno, Tokyo; Kyusyu (South)."

This new species is allied to *Gomphus occultus* SELYS from North China, but quite easily distinguished by the following points:

1. Size much larger, ♂ abd. + app. 46, h. w. 33—35, ♀ abd. + app. 46—47, h. w. 36—38.
2. ♂. Caudal appendages very similar to that of *occultus* SELYS, but stouter, and relatively shorter and equal to the length of 10. (Pl. 2, Fig. 3, c, d).
3. ♂. Hamuli posteriores blackish in colour, tips ending in a curved claw, (Pl. 2, Fig. 3, b).
4. ♀. Valvula vulvae divided into two triangular lobes. (Pl. 2, Fig. 3, a).
5. A greater part of postclypeus, and occiput, black.
6. Thorax with a complete black stripe on the first lateral suture.
7. Distribution limited to Japan.

Holotype: 1♂, Ōkuma-mura, Miyagiken, VIII. 1934 (KATO leg.).

Allotype: 1♀, Tokyo, IX. 1931 (ASAHINA leg.).

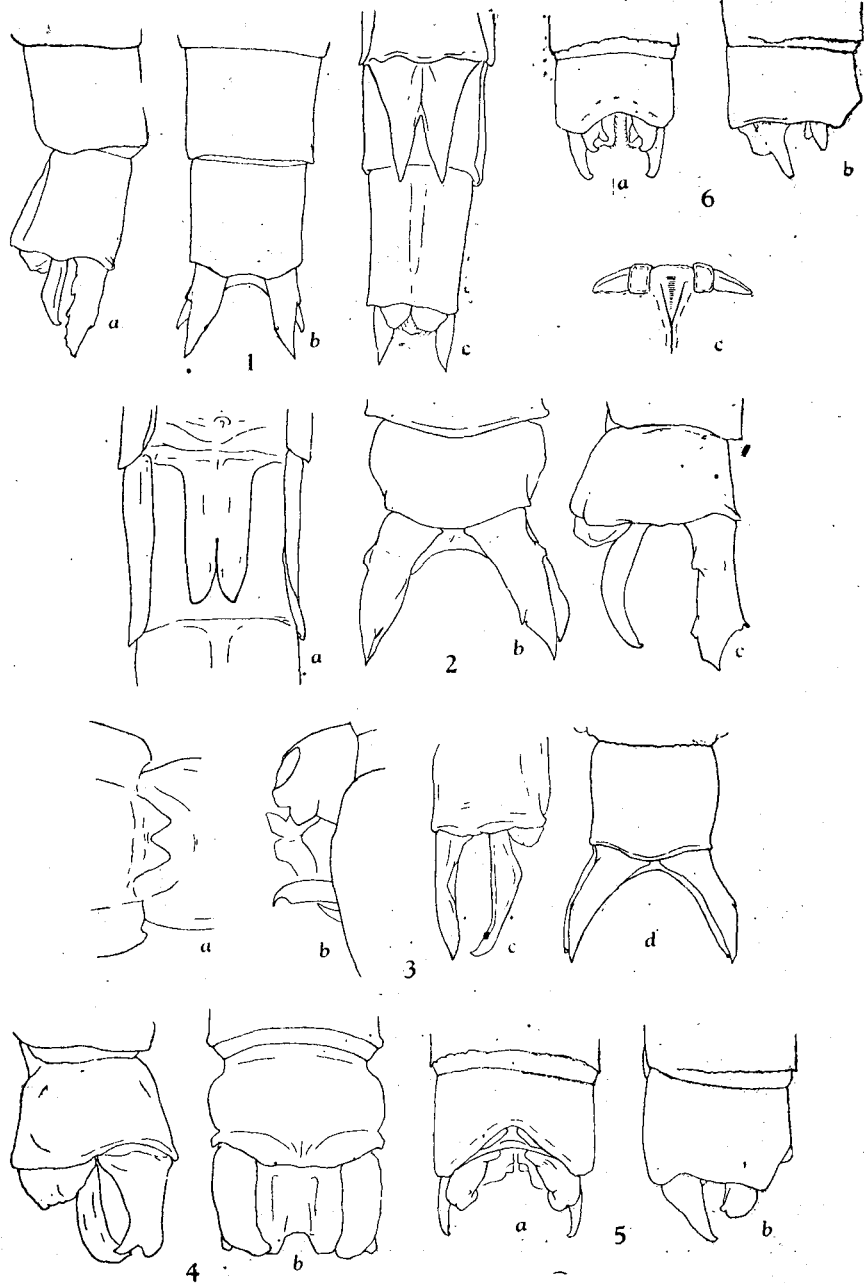
Paratypes: 1♂, 1♀, Otu, 1934 (TSUDA leg.).

## 5. *Chlorogomphus brunneus costalis* subsp. nov. (Pl. 2, Fig. 4)

This subspecies is separable from *brunneus brunneus* OGUMA in the

## EXPLANATION OF PLATE 2

- Fig. 1. *Gomphus (Trigomphus) melampus bifasciatus* subsp. nov.  
 a. Caudal appendages (♂), lateral view.  
 b. The same (♂), ventral view.  
 c. Genital plate (♀), ventral view.
- Fig. 2. *Gomphus (Trigomphus) citinus tabei* subsp. nov.  
 a. Genital plate (♀), ventral view.  
 b. Caudal appendages (♂), dorsal view.  
 c. The same (♂), lateral view.
- Fig. 3. *Gomphus oculatus* sp. nov.  
 a. Genital plate (♀), ventral view.  
 b. Genital hamuli (♂), right-side view.  
 c. Caudal appendages (♂), lateral view.  
 d. The same (♂), dorsal view.
- Fig. 4. *Chlorogomphus brunneus costalis* subsp. nov.  
 a. Caudal appendages (♂), lateral view.  
 b. The same (♂), dorsal view.
- Fig. 5. *Enallagma deserti yezoensis* subsp. nov.  
 a. Caudal appendages (♂), dorsal view.  
 b. The same (♂), lateral view.
- Fig. 6. *Agriion terue* sp. nov.  
 a. Caudal appendages (♂), dorsal view.  
 b. The same (♂), lateral view.  
 c. Mesostigmal plate (♀).



following characters :

1. ♂. The latero-ventral spine of superior appendage situated almost at the end of the appendage. (Pl. 2, Fig. 4. a).
2. ♀. Wings brownish only along the costa; this marking becomes narrower in the individuals from northern localities.
3. Distribution : Amami-Osima. Yaku-sima, Kyusyu, and (probably) Sikoku.

Holotype : 1♂, Yakusima, 22. VII. 1935 (NOMURA leg.).

Allotype : 1♀, Yakusima, 20. VII. 1935 (NOMURA leg.).

Paratypes : 1♀, Amami-osima, 14. VII. 1933 (ESAKI et YASUMATSU leg.);  
1♀, Ambo, Yakusima, 7. VII. 1929; 1♂, 1♀, Amami-osima, VII.  
1927; 1♀, Amami-osima, 16. VII. 1937; 1♂, Toi-no-misaki, Kyusyu,  
1935 (SHIROUZU leg.).

# 6. *Macromia tokyoensis* sp. nov. (Fig. 2)

This species is belonging to the *moorei*-group, (LIEFTINCK, 1929) and allied to *amphigena* SELYS as well as *clio* RIS. The distinguishing characters are as follows :

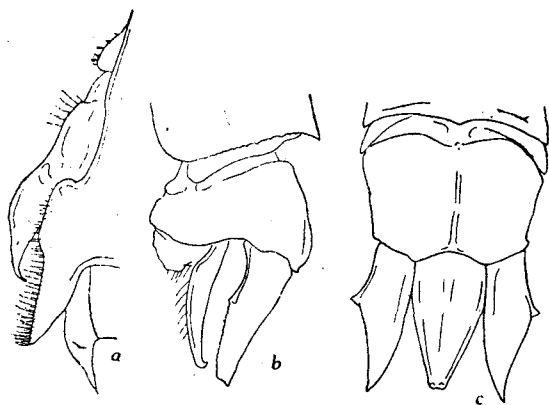


Fig. 2. *Macromia tokyoensis* sp. nov.

- a. Genital hamuli (♂), left-side view.
- b. Caudal appendages (♂), lateral view.
- c. The same (♂), dorsal view.

1. ♂. Hamuli posteriores unique, ending in a simply tapering process. (In *amphigena* they end in a hammer-like process.) (Fig. 2, a).
2. ♂. Caudal end of the genital lobe somewhat prolonged and rather pointed. (Fig. 2, a).
3. ♂. App. sup., seen from above, rather

straight and sharply pointed. (Fig. 2, c).

4. ♀. Abdomen almost naked.
5. ♀. Yellow markings on the sides of 2 and 3 separated in paired dorsal and ventral portions.
6. ♀. Dorsal yellow spots on 4, 5, 6, just in front of the transverse carina, occupying about  $\frac{1}{4}$  length of the segment.
7. ♀. Yellow marking of 7 very conspicuous with a posterior pointed portion.

This species differs from *clio* RIS in the characters 6 and 7 mentioned

above.

Holotype : 1♂, Kyoto, 21. VI. 1936 (HUZIKAWA leg.).

Allotype : 1♀, Tokyo, 13. VI. 1934 (ASAHINA leg.).

Paratype : 1♂, Miyakonozyo, 12. VII. 1935 (TABE leg.).

7. *Platynemis foliacea sasakii* subsp. nov. (Fig. 3)

This new subspecies is readily separated from Chinese *foliacea foliacea* SELYS in the following points :

1. Body larger, abd. 32—33, h. w. ♂ 22, ♀ 23. (In *foliacea foliacea*, abd. 26—27, h. w. ♂ 19, ♀ 22).
2. Aged insects never pruinosed.
3. Black markings of the proximal segments of abdomen broader. (Fig. 3, a, b).
4. Distribution confined to Japan.

Holotype : 1♂, Inokasira,  
Tokyo, 14. VI. 1930  
(ASAHINA leg.).

Allotype : 1♀, Inokasira,  
Tokyo, 14. VI. 1930  
(ASAHINA leg.).

Paratypes : 8♂, 5♀, Ino-  
kasira, Tokyo, 14. VI. 1930 (ASAHINA leg.).

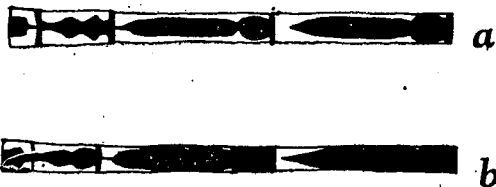


Fig. 3. *Platynemis foliacea sasakii* subsp. nov.  
a. Abdominal markings, 1—4 segments (♀).  
b. The same (♂).

8. *Agrion terue* sp. nov. (Pl. 2, Fig. 6)

*Agrion* sp. ASAHINA, Tenthredo, 2, p. 167 (1938) "1♂ Onuma, 29. VII. 1937; 4♂ 1♀, Onuma, 30. VII. 1937."

This is a slender damselfly probably belonging to the *ecornutum*-group of the genus *Agrion*, and distinguished from *Agrion ecornutum* SELYS in the following characters :

1. ♂. App. inf. black, its superior branch extending posteriorly. (In *ecornutum* it is almost yellowish white, and only notched at the tip.) (Pl. 2, Fig. 6, a, b).
2. ♂. Penis: Terminal lobe small; the third segment longer than wide; the terminal process twisted and very long, the tip reaching the distal  $\frac{1}{4}$  of the first (shaft) segment.
3. ♂. Dorsum of abdomen 9 entirely pale blue.
4. ♀. The concave mesoprescutum broader; the rectangular portion of mesostigmal plate situated straight. (In *ecornutum* the mesoprescutum narrower; and the rectangular portion of mesostigmal plate obliquely situated. (Pl. 2, Fig. 6, c).

Holotype : 1♂, Ozegahara, 13. VII. 1935 (ASAHINA leg.).

Allotype : 1♀, Ozegahara, 13. VII. 1935 (ASAHINA leg.).

Paratypes: 8♂, 4♀, Ozegahara, 13. VII. 1935; 1♂, ditto, 14. VII. 1935; 2♀, ditto, 17. VII. 1937; 2♂, 4♀, ditto: 18. VII. 1937.

9. *Enallagma deserti yezoensis* subsp. nov. (Pl. 2, Fig. 5)

*Enallagma* sp. ASAHINA, Tenthredo, 2, p. 167 (1938) (Hokkaido).

This common *Enallagma* from Hokkaido is considered to be a local subspecific form of Algerian *Enallagma deserti* SELYS. It is separated as below:

1. ♂, ♀. Wing veins entirely black or blackish brown, while in *deserti deserti* they are pale brownish.
2. ♂. Dorsal carina black (in *deserti deserti* finely yellow), humeral stripe broader.
3. ♂. Vertex wholly black.
4. ♀. Dorsum of abdomen with a broad longitudinal black stripe, interrupted at the base of 3—7 respectively, and somewhat constricted at the base of 8.

Holotype: 1♂, Kuttyaro-ko, Hokkaido, 11. VIII. 1937 (ASAHINA leg.).

Allotype: 1♀, Kuttyaro-ko, Hokkaido, 11. VIII. 1937 (ASAHINA leg.).

Paratypes: 12♂, 7♀, Kuttyaro-ko, Hokkaido, 11. VIII. 1937 (ASAHINA leg.).

*Enallagma circulatum* SELYS described from Japan should be regarded as another subspecific form of *E. deserti* SELYS.